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Mortars (concrete) compn - contg. nitrites, phosphates, aldonates and org. amines as corrosion inhibitors for iron

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JP50001120 A 19750108 197519 B

JP78036851 B 19781005 197844

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Abstract (Basic): JP 50001120 A

To prevent corrosions of Fe articles used in mortars and concretes, mixts. consisting of nitrites 50-90, inorg. phosphates 8-20, ~~aldonates~~
~~acidolysis salts~~ 1-15, and triethanolamine 1-15 parts were added to mortars or concretes. In an example portland cement 280, sand 1070, and sea sand (0.3 wt. % NaCl) 790 kg/m³ were mixed with NaNO₂ 8, Na hexametaphosphate 1, Na aldonate 0.5, and triethanolamine 0.5 wt. % (to the cement), kneaded at 0.65 W/C ratio, and poured into a frame (15 cm diam. and 30 cm height), in which a polished Fe rod (10 mm diam) was inserted and exposed in outdoor. The addn. of the ~~corrosion inhibitors~~ had no influence on compressive strengths of mortars or concretes.